

STRZYZEWSKI, Kazimierz

Case of choroiditis in Besnier-Boeck-Schaumann's disease.
Polski tygod. lek. 11 no.10:461-462 5 Mar 56.

1. Z Kliniki Ocznej Pomorskiej A.M. w Szczecinie; kierownik:
prof. dr. med. W. Starkiewicz, Szczecin, ul. Krasinskiego 24
m. 9.

(CHOROIDITIS, complications,
sarcoidosis of lungs (Pol))

(LUNGS, diseases,
sarcoidosis, with choroiditis (Pol))

(SARCOIDOSIS,
lungs, with choroiditis (Pol))

STRZYZEWSKI, Kazimierz

Neurogenic glaucoma. Klin.oczna 29 no.3:247-254 '59.

l. Z Kliniki Okulistycznej P. A. M. w Szczecinie Kierownik:
prof. dr med. W. Starkiewicz.
(GLAUCOMA etiol)

STRZYZEWSKI, Kazimierz

Reducers of visual acuity. Klin.oczna 30 no.2:189-191 '60.

l. Z Zakladu Patofizjologii Narzadu Wzroku Pomorskiej A.M. w Szczecinie. Kierownik: prof.dr med. W. Starkiewicz.
(REFRACTION OCULAR)

STRZYZEWSKI, Maksymierz

Use of hyaluronidase in the treatment of inflammation of the lacrimal sac in infants. Klin. oczna 31 no.4:407-409 '61.

1. Z Kliniki Ocznej Katedry Okulistyki Pomorskiej AM w Szczecinie
Kierownik: prof. dr med. W. Starkiewicz.

(HYALURONIDASE ther) (DACYRYOCYSTITIS ther)

STRZYZEWSKI, Kazimierz

Color vision disorders as a sign of side effects of Digitalis preparations. Klin. oczna 32 no.1:45-48 '62.

1. Z Zakladu Patofizjologii Narzadu Wzroku Pomorskiej AM Kierownik: prof. dr med. W.Starkiewicz Z Oddz. Ocznego Szpitala Kolejowego w Szczecinie Ordynator: dr W. Zubczewska.
(DIGITALIS toxicol) (COLOR BLINDNESS etiol)

STARKIEWICZ, Witold; STRZYZEWSKI, Kazimierz

Changes in the direction of visualized light falling into the macula lutea of a squinting eye during the treatment of strabismus by a localization method. Klin. oczna 32 no.4:331-240 '62.

l. Z Katedry Okulistycznej AM w Szczecinie, Kierownik: prof.
dr med. W. Starkiewicz.

(STRABISMUS) (MACULA LUTEA)

STRZYZEWSKI, Kazimierz

The effect of uni-ocular stimuli on ocular impression during passive eye movements. Klin. oczna 34 no.1:29-32 '64.

1. Z Katedry Okulistyki Pomorskiej AN w Szczecinie; kierownik:
prof.dr.med. W.Starkiewicz.

*

L 61889-65

ACCESSION NR: AP5018224

PO/0056/65/016/003/0445/0449

15

B

AUTHOR: Strzyzewski, Kazimierz (Stzhizhevski, K.)

TITLE: Analysis, by means of an analog adder, of the objective flicker fusion frequency in the retina of a rabbit adapted to darkness

SOURCE: Acta physiologica polonica, v. 16, no. 3, 1965, 445-449

TOPIC TAGS: ophthalmology, retina, flash fusion, dark adaptation, electroretinogram, flicker fusion frequency

ABSTRACT: Experiments were performed on 5 rabbits which had been adapted to darkness. The animals were anesthetized by Nembutal (10 mg/kg i. v.) and the electroretinogram was recorded from the left eye, using an 8-channel electroencephalograph. The source of light was an xenon lamp with a single flash of 1.5×10^6 candles. The results show that the culmination time of wave b in the retinogram was 25 milliseconds at a flicker frequency between 1 and 25/sec. Above 25 flashes/second, the culmination time of wave b was shortened. At a flicker frequency of 110/second, the culmination time was only 11-12 milliseconds. Application of more than 70 flashes per second produced a decrease in the amplitude of the functional current. Objective flicker fusion was achieved

Card 1/2

L 61889-65

ACCESSION NR: AP5018224

at 100-120 flashes/sec. Orig. art. has: 3 figures.

ASSOCIATION: Katedra Okulistyki Pomorskiej AM, Szczecin (Pomeranian Institute of Ophthalmology, AM)

SUBMITTED: 23Jun64

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 005

dm
Card 2/2

L 62754-65

ACCESSION NR: AP5018225

PO/0056/65/016/003/0451/0455

7

B

AUTHOR: Strzyzewski, K. (Stzhizhevski, K.)

TITLE: Analysis, by means of an analog adder, of the objective flicker fusion frequency in the electroencephalogram of a rabbit adapted to darkness

SOURCE: Acta physiologica polonica, v. 16, no. 3, 1965, 451-455

TOPIC TAGS: ophthalmology, retina, flicker fusion frequency, electroencephalogram, dark adaptation, electroretinogram

ABSTRACT: Experiments were performed on 16 rabbits which were anesthetized with Nembutal (10 mg/kg i.v.) and had been adapted to the dark for 10 minutes. The electroretinogram (ERG) was taken from the left eye, while the EEG was taken from the right cerebral hemisphere, using two needle electrodes. The source of light flashes was a xenon lamp of the PS-2 type (Grass Co.). The intensity of a single flash was 1.5×10^6 candles and the duration was 10 usec. The results showed that at 1-4 flashes/second a normal ERG tracing was obtained, while at 5-6 flashes/sec. a_1 and b_1 waves appeared in the evoked response. With flashes of this frequency, the C_1 and d_1 waves in the evoked response could not be distinguished. At 10 flashes/second or more, only the b_1 wave appeared in the

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L 62754-65

ACCESSION NR: AP5018225

evoked response, and at 10-14 flashes/sec. the culmination time of this wave increased to 40-45 msec. At 20-25 flashes/second, the b wave had a culmination time of 30-32 msec., while a frequency of 30 or more flashes/sec. evoked a wave in the ERG with a shorter culmination time of 20-27 msec. 50 flashes/sec. caused the formation of a clear ERG tracing with a culmination time in the b wave of 25-28 msec., but the evoked response in the EEG was not clear, the tracing assuming the form of a wavy line; at 60 flashes/sec., the culmination time of the ERG b wave was 20-22 msec. Thus, frequencies of 20 flashes/sec. or higher produced persistence of only the b₁ wave in the EEG, and the objective flicker fusion frequency, determined from the persistence of the b₁ wave, amounted to about 50 flashes/second. Orig. art. has: 2 figures.

ASSOCIATION: Katedra Okulistycznej Pomorskiej AM, Szczecin (Pomeranian Institute of Ophthalmology)

SUBMITTED: 23Jun64

ENCL: 00

SUB CODE: LS

NO REF SOV: 001

OTHER: 007

Card

2/2

STROJISZAKI, Krzysztof.

The significance of the frequency filtration of the eye in the treatment of strabismus with eccentric fixation of the squinting eye. Klin. okulist. 35 .. 184-195.

I. Z Katedry Oftalmistyki Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. W. Starkiewicz).

Z
STRZYIEWSKI, W.; SZATYBELKO, M.

A few words on the synthetic fiber Polana. p. 7.
GOSPODARKA RYBNA (Polskie Wydawnictwa Gospodarcze) Warszawa.
Vol. 7, no. 10, 1955.

So. East European Accessions List. Vol. 5, no, 1, Jan. 1956

Wojciech KUCHARSKI, Bolesław KWIATKOWSKI, Stefan LORKIEWICZ, ...

The status of the central nervous system before and after open heart surgery in children. Kardiol. Pol. 7 (no. 2), 1971.
Lwówek Śląski 1971.

z Oddziału Chirurgii Torakalnej (Oryginalny: prof. dr J. Moll); z Oddziału Neurologicznego Szpitala Miejskiego im. S. Wyszyńskiego (Oryginalny: dr T. Frackowiak) oraz z Kliniki Neurochirurgii Akademii Medycznej w Poznaniu. Kierownik: prof. dr H. Powiertowski".

STRZYZEWSKI, W.; ZAUCHA, J.

STRZYZEWSKI, W.; ZAUCHA, J. Plastic materials in the fishing industry. p. 1.

Vol. 8, no. 9, Sept. 1956

GOSPODARKA RYBNA

AGRICULTURE

Poland

So: East European Accession, Vol. 6, No. 5, May 1957

STRZYZEWSKI, Wieslaw, dr., adiunkt

Dihydration of alcohols on oxide catalysts in the light of the multiplet theory of catalysis. Wiad chem 16 no.1:1-18 Ja '62.

1. Zaklad Chemii Organicznej, Uniwersytet, Lodz.

STRZYZEWSKI, Włodzimierz

A case of familial hereditary cerebellar ataxia with dystonic hyperkinesi. Neurol. neurochir. psychiat. pol. 13 no.5:633-635 '63.

1. Z Oddziału Neurologicznego Szpitala Miejskiego im. Strusia w Poznaniu. Oryginalny: dr. med. T.Frakowiak.

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[REDACTED]

STRZYZEWSKI, Włodzimierz, Neurological Division (Oddział Neurologiczny) Municipal Hospital (Szpital Miejski) im. Szczęścia in Poznań (Director: Dr. med. T. FRACKOWIAK)

"Evaluation of Invalidism and Temporary Inability to Work in Syndromes Following Closed Injuries to Skull and Brain."

Katnaw, Polski Tygodnik Lekarski, Vol 18, No 11, 11 Mar 63,
pp 387-391.

Abstract: [Author's English summary] Main criteria for medical certification in post-traumatic states of the skull are discussed. One should distinguish between concussion and contusion, as well as between syndromes without any organic cause and those caused by traumatic cerebral damage. Attention is drawn to other neurotic signs in the patients, which are usually not due to the injury, and should therefore not be considered in establishing the degree of invalidism. Of the 25 references, 14 are Polish, 10 are German, and one (1) in English.

[REDACTED]

STAWIŃSKI, Kazimierz; MACIAS, Anna, STRŁYZIĘCKA, Urszula

Our own experiences in double protection used in the curettage
of gingival pockets. Czas. stomat. 18 no. 12 s1425-1429 D 9 65

1. w Katedry Stomatologii Zachodniowoj. AM w Poznaniu (Kierownik:
doc. dr. K. Śląwiński).

BARTKOWIAK, Zygmunt; STRZYZOWSKI, Jozef

Post-traumatic nephrolithiasis consecutive to closed injury
of the kidney. Urol. polska 8:27-30 1956.

1. Z Oddzialu Urologicznego Szpitala Miejskiego nr 1 im.
J. Strusia w Poznaniu Ordynator: dr. Zygmunt Bartkowiak.

(KIDNEYS, calculi,
post-traum., case reports. (Pol))

(WOUNDS AND INJURIES,
kidneys, causing calculi, case reports. (Pol))

(CALCULI,
kidneys, post-traum., case reports. (Pol))

SLOMKO, Zbigniew; STRZYZOWSKI, Jozef

Role of urography before gynecological operations. Ginek. pol. 33
no.6:811-818 '62.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Poznaniu Kierownik:
prof. dr W. Michalkiewicz.
(UROGRAPHY) (GYNECOLOGY)

Kozminski, J. M.; Kozminski, J. M.

Maria as a member of Kozminski's family. In addition
mention. Other. Tel. 49-40-00-00-00-A, Tel.

J. M. Kozminski Polonaise, "Gardzienice, Albin, (Kozminski)
Kozminski, Kozminski, J. M., Tel. 49-40-00-00-A, Tel.

STEIN, Wladyslaw; STRZZLEK, Mieczyslaw

Familial form of myotonia atrophica; essay with ACTH and calcium therapy. Neur. &c. polska 6 no.1:23-33 Jan-Feb 56.

1. Z Oddzialu Chorob Nerwowych Wojskowego Szpitala Klinicznego
Ordynator: plk. dr. W. Stein.

(MYOTONIA ATROPHICA, therapy,
ACTH & calcium in familial cases. (Pol))

(ACTH, therapeutic use,
myotonia atrophica, with calcium in familial cases. (Pol))

(CALCIUM, therapeutic use,
myotonia atrophica, with ACTH in familial cases.
(Pol))

IVANOV, V.V.; BURAK, A.P.; VIBITSKAYA, Z.I.; SISSENIKAYA, G.L.

History of Upper Mesozoic coal accumulations in the south-eastern part of the Lena Basin. Trudy Lab. geol. nauch. no.18:
196-333 163 (1974) 18:1)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653620011-6

GURAEV, V.P.; BOGA, A.A.; STEPENOV, V.V.

Produced equipment should be on the level of best standards.
Mashinostroitel' no.918 S '65. (MIRA 18;12)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653620011-6"

31041-MSK/1

POLAND/Soil Science. Genesis and Geography of Soils.

I-2

Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22425

Author : Stshemskiy

Inst :

Title : A Scheme of Global Soil Distribution by Climatic Zones.

Orig Pub: Przegl. geogr., 1956, 28, No 1, 131-141.

Abstract: A brief review. Analyzing the connection which exists between distribution of different soil types and the climate, the author comes to the conclusion that the climate conditions explain the formation of one or another type of natural soil mainly by vegetative formations. The scheme of distribution of different soil types from the poles to the equator is given, depending on geographical location of the given territory, hydrothermal conditions, and the vegetative cover. Bibl. 94 refs.

Card : 1/1

-1-

STSHIZHEVSKI, V., Cand Chem Sci -- (diss) "Kinetics of the dehydra-
tion of alcohols with tungsten oxide." Moscow, 1960. 14 pp; (Moscow
Order of Lenin and Order of Labor Red Banner State Univ im M. V.
Lomonosov, Chemistry Faculty); 200 copies; price not given; (KL,
27-60, 149)

5.4300

CIO JDU

S/195/60/001/004/008/015
B017/B055

AUTHORS: Tolstopyatova, A. A., Balandin, A. A., Stshizhevskiy, V.

TITLE: The Kinetics of Alcohol Dehydration on Tungsten Oxide and
the Energy of Carbon, Hydrogen, and Oxygen Bonds With
Catalysts

PERIODICAL: Kinetika i kataliz, 1960, Vol. 1, No. 4, pp. 558-565

TEXT: The kinetics of the dehydration of ethyl, isopropyl, n-butyl and tert-butyl alcohol and cyclohexanol on W_2O_5 were investigated under isothermal conditions. This catalyst was also used to study the dehydrogenation of methyl alcohol and 1,2,3,4-tetrahydro naphthalene. The catalyst was prepared by subjecting the yellow tungsten oxide WO_3 to heat treatment in air at $350-450^{\circ}C$ for 5-6h, and subsequent treatment with alcohol vapors at $200-390^{\circ}C$. Thermal effects in dehydration reactions of n-butyl alcohol are shown in Table 1. Table 2 gives the apparent activation energies of alcohol dehydration on the tungsten-oxide catalyst. A relation was found to exist between the apparent activation energy and

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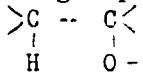
88360

The Kinetics of Alcohol Dehydration on Tungsten Oxide and the Energy of Carbon, Hydrogen, and Oxygen Bonds With Catalysts

S/195/60/001/004/008/015
B017/B055

X

the structure of the alcohol. For ethyl and n-butyl alcohol, the apparent activation energy of dehydration is 30 kcal/mole, for isopropyl alcohol, 24 kcal/mole and for tert-butyl alcohol, 18 kcal/mole. The true activation energies of alcohol dehydration (isopropyl and butyl alcohols) were determined at 26.1 kcal/mole for isopropyl alcohol and 33.4 kcal/mole for n-butyl alcohol by means of the kinetic equation by Balandin (Ref. 20). The relative adsorption coefficients of the dehydration products from n-C₄H₉OH and iso-C₃H₇OH as a function of temperature are given in Table 3. From this it may be seen that the relative adsorption coefficients are independent of temperature. Results obtained in the kinetic determination of the dehydration of n-butyl and isopropyl alcohol are shown in Table 5. The true activation energy is 3 kcal/mole higher than the apparent activation energy. The alcohols to be dehydrated are oriented with their functional groups towards the surface of the catalyst:



The kinetic method was used to determine the energies of the bonds of the

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30300

The Kinetics of Alcohol Dehydration on Tungsten Oxide and the Energy of Carbon, Hydrogen, and Oxygen Bonds With Catalysts

S/195/60/001/004/008/015
B017/B055

carbon, hydrogen, and oxygen atoms with the active centers of the W_2O_5 surface. The bond energies were found to be a function of the structure of the alcohol. The energies of the bonds of reacting atoms and molecules with the surface of the W_2O_5 catalyst are given in Table 6.

Table 6

Alcohol	Activation Energy of Dehydration	Bond Energies		
		Q_{H-Cat}	Q_{C-Cat}	Q_{O-Cat}
n-Butyl	29.9	56.7	24.1	39.4
Ethyl	29.4	56.4	24.5	39.7
Isopropyl	23.7	52.6	27.6	43.5
Cyclohexanol	21.9	51.5	29.5	44.6
Tert-butyl	17.8	48.7	32.2	47.5

I. Ye. Adadurcv and P. Ya Krayniy are mentioned. There are 6 tables and 25 references: 24 Soviet and 1 German.

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33360

The Kinetics of Alcohol Dehydration on Tungsten
Oxide and the Energy of Carbon, Hydrogen, and
Oxygen Bonds With Catalysts

S/95/60/001/004/008/015
B617/B055

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State
University)

SUBMITTED: May 15, 1960

X

Card 4/4

S/020/60/134/003/030/033/XX
B004/B064

AUTHORS: Balandin, A. A., Academician, Tolstopyatova, A. A., and
Stshizhevskiy, V.

TITLE: The Catalytic Activity of Tungsten Pentoxide [1]

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 3,
pp. 625 - 628

TEXT: The authors investigated the dehydration of ethanol, isopropanol,
t-butanol, cyclohexanol, methanol, and Tetralin with W_2O_5 under iso-
thermal conditions. Blue W_2O_5 was obtained from tungstic acid at
 $350 - 400^{\circ}C$ in an air current. First, WO_3 was formed and then reduced to
 W_2O_5 during the reaction with the alcohols at $200 - 300^{\circ}C$. The reaction
apparatus operated continuously, and the liquid substances were auto-
matically added. The gaseous products were collected in an automatic
Patrikeyev gasometer, and analyzed with a BTM (VTI) apparatus or chroma-
tographically. In the liquid product of catalysis, the amount of

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The Catalytic Activity of Tungsten
Pentoxide

3/320/60/134/003/C30/C35/XX
B004/B064

unsaturated hydrocarbons was determined by the method of Kaufman-Gal'pern. Since the endothermic effect of reaction affected the results of measurement, the catalyst was diluted in a ratio of 2 : 3 with quartz of the same grain size, the alcohol with water or with the corresponding unsaturated hydrocarbon. Under these conditions, the process was iso-thermal. By determining the apparent activation energy (Table 1) it was found that the primary alcohols were dehydrated with the same energies (approximately 30 kcal/mole), that the activation energy of the secondary alcohols was about 6 kcal/mole lower than that of the primary ones, and that the activation energy of the tertiary alcohol was approximately 6 kcal/mole lower than that of the secondary ones. The reaction constant and the relative adsorption coefficients z_2 and z_3 of water and the unsaturated hydrocarbon were computed (Table 2) by Balandin's method (Ref. 3) with reference to the adsorption coefficient of alcohol. Checking by introduction of the experimental data into Balandin's equation confirmed the validity of this equation (Table 3). Table 4 gives the actual activation coefficients for isopropanol and n-butanol, which are approximately 3 kcal/mole higher than the apparent ones. For the binding

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The Catalytic Activity of Tungsten
Pentoxide

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B004/B064

energies Q_{HC} , Q_{CC} , Q_{OC} of the H, C, and O atoms reacting with the surface of W_2O_5 , the following was computed from Balandin's kinetic equation: Table 5:

Alcohol	Activation energy of dehydration [kcal/mole]	Binding energy		
		Q_{HC}	Q_{CC}	Q_{OC}
n-butanol	29.9	56.7	15.9	39.2
ethanol	29.4	56.4	16.3	39.5
iso-propanol	23.7	52.3	19.4	43.3
cyclohexanol	21.9	51.5	21.3	44.4
t-butanol	17.8	48.7	24.0	47.3

Although the hydrogen atoms and the radicals substituting them do not directly take part in the reaction:

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The Catalytic Activity of Tungsten
Pentoxide

S/020/60/134/003/C30/C33/XX
B004/B064

[H][C]([CH3])C([CH3])O, they affect the binding energy between the C, H, and O atoms and the catalyst. The authors mention a paper by I. Ye. Adadurov and P. Ya. Krayniy. There are 5 tables and 8 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

SUBMITTED: May 17, 1960

✓

Card 4/4

BALANDIN, A.A.; STSHIZHEVSKIY, V.; TOLSTOPYATOVA, A.A.

Thermal effect of the reaction of alcohol dehydration affecting
the results of kinetic measurements. Vest.Mosk. un. Ser.2:khim.
17 no.1:30-33 Ja-F '62. (MIRA 15:1)

1. Moskovskiy gosudarstvennyy universitet, kafedra organicheskogo
kataliza.
(Alcohols) (Heat of denervation) (Catalysis)

TOLSTOPYATOVA, A.A.; STSHIZHEVSKIY, V.; BALANDIN, A.A.

Effect of the structure of alcohols on the activation energy
of their dehydration on tungsten oxide. Vest. Mosk. un. Ser.
2: Khim. 18 no.3:52-56 My-Je '62. (MIRA 16:6)

1. Kafedra organicheskogo kataliza Moskovskogo universiteta.
(Alcohols) (Dehydration(Chemistry))
(Tungsten oxides)

STSIBO.OVSKAYA, N.B.; AZHOGIN, F.F., kand.tekhn. nauk, retsenzent;
YANOVSKIY, T.L., inzh., red.; ANIKINA, M.S., red.izd-va;
ROZHIN, V.P., tekhn. red.

[Oxide and zinc-phosphate metal coatings] Oksidnye i tsinko-fosfatnye pokrytiia metallov. Moskva, Gos.nauchno-tekhn. izd-vo Oborongiz, 1961. 169 p. (MIRA 14:12)
(Protective coatings)

STSIBORSKAYA, T.V.

Parasites of fishes of the Pechora River. Mat. k pozn.fauNY i
flory SSSR.Otd.zeol.no.6:209-217 '47. (MLRA 9:9)
(Pechora River--Parasites) (Parasites--Fishes)

2*(i)

SOV/89-5-2/27

AUTHORS:

Lebedev, P. P., Zysin, Yu. A., Klintsov, Yu. S.
Stsiborskiy, B. D.

TITLE:

The Neutron Yield From Inelastic Interaction of Neutrons of
14 MeV Energy With Nuclei and the Reaction Cross Sections
 $(n,2n)$ (Vychod neytronov pri neutruzjom vzmimodeystvii ney-
tronov s energiyey 14 Mev s yadrami i secheniye reaktsii
 $(n,2n)$)

PERIODICAL:

Atonnaya energiya, 1958, Vol 5, Nr 5; pp 522-525 (USSR)

ABSTRACT:

The quantities η_a and σ_{in} were measured for 10 nuclei
(natural isotope-composition). η_a is the number of neutrons
produced by inelastic scattering of neutrons with a nucleus.
The relative variation of the entire neutron flux and the
weakening of the primary neutron flux after passage through
the target is determined. Measurements were carried out in
the spherical geometry. The neutron source was located in the
center.

Card 1/4 The relative weakening of the primary neutron flux was measured

SOV/RJ-poly-2/27

The Neutron Yield From Inelastic Interaction of Neutrons of 14 MeV Energy
With Boron, and the Reaction Cross Sections ($n,2n$)

by means of a copper indicator $[Cu^{63}(n,2n)Cu^{62}]$. The relative variation of the total neutron flux was measured by means of a boron counting-tube in the paraffin block, which is described (Ref 2).

Measuring errors could not be kept below an average of $\pm 3\%$. The values for σ_{in} agree with previously obtained results.

The values η_a are higher by $\pm 0.15\%$ than those mentioned by reference 1. In a similar manner the values $(\sigma_{n,2n} - \sigma_c)$ differ in the same direction as η_a from the values mentioned (Ref 1). The following measuring results were obtained:

Element	η	σ_{in} , b	$(\sigma_{n,2n} - \sigma_c)$, b
Be	1.20 ± 0.15	1.44 ± 0.04	0.26 ± 0.1
Cu	1.34 ± 0.15	1.50 ± 0.07	0.47 ± 0.1
Card 2/4	No	1.64 ± 0.2	1.0 ± 0.2

SOV 32-3-5-2/2

The Neutron Yield From Inelastic Interaction of Neutrons of 14 MeV Energy
With Nuclei and the Reaction Cross Sections ($n, 2n$)

Element	η	σ_{in} , b	$(\sigma_{n, 2n} - \sigma_c)$, b
Cd	1,74±0,2	1,87±0,2	1,33 ± 0,3
Sn	1,81±0,2	1,83±0,2	1,43 ± 0,3
Sb	1,82±0,2	1,85±0,13	1,52 ± 0,2
Hg	1,86±0,2	2,46±0,1	2,02 ± 0,2
Pb	1,92±0,2	2,46±0,1	2,18 ± 0,2
Bi	1,88±0,2	2,58±0,1	2,18 ± 0,2
F	2,8 ±0,25	2,91±0,14	-

A. A. Malinkin took part in the experiments. There are 1 figure, 1 table, and 10 references, 2 of which are Soviet.

SUBMITTED: April 17, 1958
Card 3/4

SOV/20-127-2-12/70

16(1)
AUTHOR: Stsilard, K.S.TITLE: On the Extension of Fatou's Theorem to a Certain Class of
Continuous Mappings

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 278-280 (USSR)

ABSTRACT: Let $\zeta = f(z)$ be a (in general not analytical) function of
 $z = x+iy$. Let $f(z) = u(x,y)+iv(x,y)$ be unique in the ring
 $r_1 \leq |z| < 1$; let the partial derivatives u_x, u_y, v_x, v_y be continuous.Theorem: Let the domain E of the z-plane ($z = re^{i\varphi}$) be defined
by $\varphi_1 < \varphi < \varphi_2$, $r_1 \leq r < 1$. In E:1. let $\zeta = f(z)$ imply a locally inner mapping of the set E,
where this mapping is not locally schlicht at most on a
countable point set without point of condensation;2. there exists $\iint \sqrt{D(x,y)} dx dy < \infty$, where D is the functional
determinant of the mapping $u = u(x,y)$, $v = v(x,y)$;

3. in the points of schlichtness it holds

$$\liminf_{\vartheta \rightarrow 0} \frac{\min|\zeta_0 - \zeta_\vartheta|}{\max|\zeta_0 - \zeta_\vartheta|} \geq c, \quad 0 < c \leq 1,$$

where ζ_0 is the image of z_0 and ζ_ϑ is the image of the running

Card 1/2

On the Extension of Fatou's Theorem to a Certain
Class of Continuous Mappings

S07/20-127-2-12/

point on $|z_0 - z| = \xi$.

Then for almost all $\varphi (\varphi_1 < \varphi < \varphi_2)$ there exists the

$$\lim_{r \rightarrow 1} f(re^{i\varphi}) .$$

The author mentions M.A.Lavrent'yev, and I.N.Pesin.
There are 4 references, 1 of which is Soviet, 1 German,
1 French, and 1 Hungarian.

ASSOCIATION: Vsesoyuznyy institut nauchno-tehnicheskoy informatsii go . arst-
vennogo nauchno-tehnicheskogo komiteta Soveta Ministrov SSSR
i Akademii nauk SSSR (All-Union Institute for Scientific-
Technical Information of the State Scientific-Technical
Committee of the Cabinet Council of the USSR and the AS USSR)

PRESENTED: April 2, 1959, by I.N.Vekua, Academician

SUBMITTED: March 31, 1959

Card 2/2

STSILARD, E. S.

Izmerenie soprotivleniya krylovych profilei v trube bol'sikh skorostei
TSAGI. (In: Vsesoiuznaya konferentsiya po skorostnoi aviatsii. Moscow,
1935. Trudy, p. 92-97, illus., diagrs.)

Title tr.: Measurement of the drag of wing profiles in the C.A.H.I. high
speed wind tunnel.

TL505.V72 1935

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

KLEPACKI, Witold, GERKOWICZ, Teresa, STSKIEWICZ, Jadwiga

Acrodynia; Swift's and Feer's disease. Polski tygod. lek. 13
no.14:510-514 7 Apr 58

1. (z Kliniki Chorob Dzieci Ak.Med. w Lublinie; kierownik; doc. dr med.
Witold Klepacki), Adres: Lublin, ul. Dabrowskiego 24.
(ACRODYNIA, case reports
(Pol))

L 17695-65 EWT(1)/EEC(b)-2 IJP(c)/AFWL/AS(mp)-2/ESD(gs)/ESD(t)

ACCESSION NR: AP4049220

S/0201/64/000/003/0024/0034

AUTHORS: Stsyapanaw, B. I.; Pry*shy*valka, A. P.

TITLE: Method of calculating luminescence in an open resonator with
nonparallel ends

SOURCE: AN BSSR. Izvestiya. Seriya fiziko-tehnicheskikh nauk,
no. 3, 1964, 24-34

TOPIC TAGS: luminescence, open resonator, geometrical optics

ABSTRACT: A method is developed for calculating luminescence in an open resonator with non-parallel ends, with allowance for the non-linear amplification effects. The calculations are made in the geometrical-optics approximation, but it is pointed out that internal inhomogeneities in a solid resonator make corrections to geometrical optics necessary. A spinel resonator is considered, with highly polished end surfaces and matte side surface, so that it can be re-

Card 1/2

L 17695-65

ACCESSION NR: AP4049220

garded as an open resonator. The ray diagram inside the resonator is traced, and the radiation energy leaving the resonator is calculated. A graphic procedure is proposed to take nonlinearities into account. Orig. art. has: 2 figures and 33 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: OP

NR REF SOV: 004

OTHER: 001

Card 2/2

STTRAN, Vladimir, promovany geolog, kandidat geologicko-mineralogickych
ved

Principles of ore deposit distribution, statistical methods
and some problems of ore deposit prospecting. Geol pruzkum
6 no.9:258-260 S '64.

1. Central Geological Institute, Prague.

VAKSER, I.I.; STUBAYLO, G.D.; CHISTOVA, V.A.; KRYUCHKOV, G.R.,
dots., nauchnyy red.; KUNTSEVICH, S., otv. za vypusk;
STERZHANOV, P., tekhn. red.

[Public health in the White Russian S.S.R. for forty years
(1919-1958); an index to the literature] Zdravookhranenie
Belurusskoi SSR za sorok let, 1919-1958; ukazatel' litera-
tury. Minsk, 1961. 500 p. (MIRA 16:7)

1. Minsk. Respublikanskaya gosudarstvennaya nauchnaya
meditsinskaya biblioteka.

(WHITE RUSSIA--PUBLIC HEALTH--BIBLIOGRAPHY)
(BIBLIOGRAPHY--WHITE RUSSIA--PUBLIC HEALTH)

STUBER, Adrienne, dr.

Study on coli bacteria causing infantile cystitis. Gyermekgyogyaszat
7 no.3:94-96 March 56

1. A Budapesti Orvostudomanyi Egyetem Mikrobiologiai Intezetenek
(igazgato: Dr. Alfoldy Zoltan egyetemi tanar) kozlemenye.
(CYSTITIS, in inf. & child
caused by E. Coli, hemagglut. & antibiotic resist.(Hun))
(ESCHERICHIA COLI, infect.
cystitis in inf. & child, hemagglut. & antibiotic resist.
(Hun))

STUBER, Adrienne, dr.

Culture of HeLa tumor cells in virus studies. Orv. hetil.
98 no.23:613-615 9 June 57.

1. Az Orszagos Kozegeszsegugyi Intezet (foigazgato: Tako, Jozsef,
dr.) kozlemenye.
(VIRUSES, culture
HeLa cell culture (Hun))

STC BLC A.D.R. 2000 (22)

420

1. "Report on the Organization of the Soviet Military by Dr. Latako, Dr. H. J. Fleischman, and Dr. R. C. University (University of Wisconsin-Madison), Dept. of Political Science (unclassified), pp. 1-10.
2. "A Contribution to the Problem of Soviet National Security," by Dr. Latako, Dr. H. J. Fleischman, and Dr. R. C. University (University of Wisconsin-Madison), Dept. of Political Science (unclassified), pp. 1-10.
3. "Soviet Policies," by Dr. Latako, Dr. H. J. Fleischman, and Dr. R. C. University (University of Wisconsin-Madison), Dept. of Political Science (unclassified), pp. 1-10.
4. "The Climacteric Decade," by Dr. Latako, Dr. H. J. Fleischman, and Dr. R. C. University (University of Wisconsin-Madison), Dept. of Political Science (unclassified), pp. 1-10.
5. "A Case of Industrial Espionage," by Dr. Latako, Dr. H. J. Fleischman, and Dr. R. C. University (University of Wisconsin-Madison), Dept. of Political Science (unclassified), pp. 1-10.
6. "A Case of Industrial Espionage," by Dr. Latako, Dr. H. J. Fleischman, and Dr. R. C. University (University of Wisconsin-Madison), Dept. of Political Science (unclassified), pp. 1-10.

1024

SZELECKY, Jozsef, dr.; STUBER, Adrienne, dr.

Surgical and conservative therapy of umbilical hernia. Orv. hetil.
102 no.16:737-739 16 Ap '61.

1. Fovarosi Tanacs, Heim Pal Gyermekkorhaz, Sebeszeti es Csecsemo-
osztaly.

(HERNIA UMBILICAL ther)

BALOGH, Laszlo, dr.; STUBER, Adrienne, dr.

On the problem of infantile eclampsia. Gyermekgyogyaszat 13 no.1:
10-17 Ja '62.

1. Fovarosi Tanacs Heim Pal Gyermekkorhaza I. sz. Csecsemo osztalyanak
kozlemenye.

(INFANT NEWBORN dis)
(CONVULSIONS in inf & child)

OSZTOVICS, Magda; STUBER, Adrienne

Comparative studies on the serum factors which can be determined by
the C-reactive protein and antiglobulin consumption tests. Kiserl.
orvostud. 14 no.4:352-355 S '62.

1. Fovarosi Tanacs Heim Pal Gyermekkorhaz.
(COOMBS' TEST) (C-REACTIVE PROTEIN) (RHEUMATIC FEVER)

DURAY, Aladar, dr.; STUBER, Adrienne, dr.

C-reactive protein tests in laryngeal diseases. Fülorrgegegyogyaszat
9 no.4:166-169 D '63.

1. A Budapesti Orvostudományi Egyetem Fül-orr-gezeklinikájának
(igazgató: Varga Gyula dr. egyetemi tanár) és Heim Pal Gyermekkor-
ház (igazgató: Sarkany Jeno dr.) közlemenye.

SZAMOSI, József, dr.; BARANYAI, Pal, dr.; STUBER, Adrienne, dr.

Essential fructosuria. Gyermekgyogyaszat 15 no.5:151-155
My'64.

Heim Pal korhaz Fovarosi Tanacs Kozponti Gyermekegeszsegü-
gyi Modszertani, Tudományos Kutató es Továbbképző Inte-
tenek (Igazgató: Sarkany, Jeno, dr.) kozlemenye.

*

KUBICKI, Stefan; STAUBER, Marceli; LOZINSKI, Jan

Lesions of internal organs & prognosis in collagenoses. Polski tygod.
lek. 13 no.52:2119-2123 29 Dec 58.

1. (Z Oddzialu Chorob Wewnetrznych; Kierownik: prof. dr Stefan Kubicki
i z Oddzialu Dermatologicznego; Kierownik: dr Marceli Stauber; Central-
nego Szpitala Klinicznego MSW w Warszawie). Adres: Warszawa, ul. Woloska
2. Centralny Szpital Kliniczny MSW.

(COLLAGEN DISEASES, pathol.

lesions of internal organs & progn. (Pol))

R

CA

Structure and synthesis of halloysite. M. Karulin and V. Stipčić (Yugoslavian Acad. Sci., Zagreb); *Kolloid Z.* 124, 169-70 (1951). Halloysite was prepd. by mixing a soln. of AlCl_3 and $\text{Al}(\text{NO}_3)_3$ with NaSiO_3 at a pH of 5, and codng with natural halloysite. Two species of ppt's result, the first ppt. (I) forming a cryst. X-ray pattern, and the second, more voluminous ppt. (II) is amorphous. Comparison of I with natural halloysite shows that the synthetic species contains an excess of about 2 to 3 moles of SiO_2 , and that the synthetic species lacks the dehydration max. found by differential thermal analysis at 350° for the natural mineral. I and II result, on drying at 105°, in a structure similar to that of the natural mineral. The difference between I and the natural material is explained by the relation of the silicic acid mols. in the synthetic substance. R. N. R.

STUBICAN V.

Some properties of aqueous suspensions of bentonite, cement, and clay. V. Stubican and A. Strmac. (Nafra, Zagreb, 1953, 4, 39-43).--Data are presented showing sedimentation volumes of cement-bentonite and cement-bentonite-clay suspensions in water, and changes in consistency of such suspensions by dilution, by the hardness of water, and by mixing cement : bentonite ratio. Up to 40% bentonite content, the graphs of equal consistency are straight lines, and they may be used for controlled variation of individual components of the mixture. By comparing the data obtained with the general behaviour of colloidal systems, it has been concluded that the action of cement particles on bentonite soils is equal to that of a colloid of opposite charge. This may explain why the colloidal properties of such systems depend upon the order in which individual components are added to the mixture. O. Potter.

STUBICAN, V.L.

The structure and properties of synthetic montmorillonite. I. The exchange capacity and thermal behavior of synthetic magnesium and sodium montmorillonites. M. Kardulin and V.I. Stepanov (Jurozav, Acad. Wiss., Czech). Monatsh. 83, 322 (1942); cf. C.A. 40, 60254. — Mg (I) and Na (II) montmorillonites, prep'd. hydrothermally by treating a mixt. of $\text{Al}_2\text{O}_3 + 3.73 \text{ SiO}_2$ with 0.2–3.0 moles of MgO or 0.1–1.0 mole of Na_2O at 300° and 100 atm. for 4 days, were analyzed and then investigated for exchange capacity, structure, and thermal properties. I showed capacities varying from 66 to 114 meq./100 g., with a max. at about 0.6 mole added MgO ; the compn. varied from essentially kaolinite in the case of small amts. of MgO to II alone where the added MgO was more than 0.5 mole. II showed capacities ranging from 7 to 130 meq./100 g., with the max. at about 0.7 mole of Na_2O ; the compn. varied from a mixt. of II, kaolinite, and analcime when the amts. of Na_2O were small, to almost pure analcime. A combination of dehydration studies and plots of extractibilities of Al^{1+} against time gave an indication of the $\text{Al(VI)}/\text{Al(IV)}$ (octahedral/tetrahedral) ratio. For 2 of the preps., (3 moles MgO and 1 mole MgO) the detd. ratios were 1.07 and 2.69, resp., as compared to the calcd. ratios of 1.08 and 2.92. Philip S. Baker

Stubican, V.

GERM

Precipitation phenomena of silver thiocyanate. V. Stubican and B. Tezak (Utiny, Zagreb, Yugoslavia). *Kolloid Z.* 140, 65-70 (1955); cf. *C. A.* 46, 1412c, 9042g; 47, 6219i.— The reaction of AgNO_3 and KCNS was followed turbidimetrically for 60 min. after mixing. A max. pptn. rate during the 1st min. occurs near the equivalence point; some excess of either reactant stabilizes the sol and slows pptn., but a larger excess produces a 2nd max. in pptn. rate, followed by a concn. range over which the product is sol. by complex formation. The stabilizing effect of excess CNS^- is exerted over a more-limited concn. range than that either of the Ag^+ in the present case, or of the halide ion with analogous Ag halide sols. This is a result, not of weak adsorption of CNS^- , but of the large solv. of AgCNS in CNS^- , which allows rapid recrystn. processes, by which the primary particles are linked into aggregates. Accordingly, the pptns. formed with excess Ag^+ are more easily peptized than those formed with excess CNS^- . X-ray diffraction patterns show a uniform cryst. structure for all pptns., with the primary particle size in the colloidal range except for concns. near the region of complex solv., where the size exceeds 10^{-4} mm. With increasing concn. of stabilizing ion, the coagulation value of K^+ for the sol increases, of Ba^{2+} remains const., and of La^{3+} decreases (contrary to the Verwey-Overbeck theory), while Th^{4+} causes charge reversal. W. S. Brey, Jr. | RM

Distr: 4E2c

Methods for the determination of free silica. V. Stubican (Inst. Med. Research, Zagreb, Yugoslavia). Arh. hig. zdrav. 8, 166-82 (1957) (English summary).—The principles for the detn. of free SiO_2 are presented. Chem., optical, and thermal methods are used. The errors occurring in a no. of methods for the quant. analysis of mixts. contg. free SiO_2 seem to be due to the structural disorder of the cryst. modifications of free SiO_2 , to the properties of the particles of high dispersion, and to the properties of silicates contained in such mixts. A preliminary x-ray analysis by the Debye-Scherrer method can help a great deal in the choice of the method for the detn. of free SiO_2 to be applied in a given case. T. Bičan-Bilješ

3
1

STURTEVANT, V.

Properties of single crystal boronite. V. Sturtevant
(X-ray diffraction, 2000 h), C. J. Dill, and G. P. Johnson
Acta Cryst. A, 13, 33-47 (1957).
The properties of single crystals of boronite are described. The
crystal structure is shown to consist of a framework of
boron atoms joined by oxygen atoms. The peak
of absorption is at 2.35 Å. The infrared absorption
is discussed. The infrared absorption is caused by N-H groups
and the infrared capacity of the boronite
is calculated. The infrared absorption is discussed
in terms of the absorption of the corresponding
minerals.

Stubican, V.

Infrared spectra of high-temperature phases of kaolinite and halloysite. V. Stubican (Yugoslavia Acad. Sci. Arts, Zagreb) and Hs. K. Bernhard. *Nature* 179, 532 (1957).
Metakaolinite is formed when kaolinite (I) or halloysite (II) is heated at 650-800°. Infrared spectra in the range 2-15 μ were obtained for I and II both before and after heating. Infrared spectra for I in the metakaolinite range no longer show the 10.9- μ absorption band (indicating the complete dislocation of the octahedral Al sheet) nor the 2.7- μ band (indicating the absence of OH groups). The normal bands for I between 8.7 and 10.4 μ are replaced by a wider band between 7.9 and 10.5 μ . In the infrared spectra for the metakaolinite stage of II the 10.9- μ band is absent, and a max. is at 9.1 μ (the Si-O linkage), and there is a band between 2.6 and 3.6 μ with a max. at 2.95 as well as a min. at 3.15 μ (absorbed water). At 1200-1350° the infrared spectra of I and II are much more similar to those of mullite than of sillimanite.
Bernard M. Blank

4

DC Wf

STUBLEY, Z.

Lubrication for glass fibers, its application and evaluation (To
be contd.) p. 51, SKLAR A KERAMIK (Ministerstvo lehkého průmyslu)
Praha, Vol. 4, No. 2, Feb. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

STUHL, V.

Lubrication for glass fibers, application and evaluation, p. 75,
SKLAR A KERAMIK (Ministerstvo lehkého průmyslu) Praha, Vol. 4,
No. 3, Mar. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

STUBLEY, Z.

Lubrication for glass fibers, application and evaluation, p. 240,
SKLAR AKERAMIK (Ministerstvo lehkého průmyslu) Praha, Vol. 1, No. 2,
Sept. 1954

SOURCE: Last European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

V. I. M. - 1974, P. 11B, p. 171.6.

Regulation of the molecular mass of polyacrylate with hydrogen.
Chemical name: LiC₂H₄O₂ - g. mol.

• Preparation methods of "LiC₂H₄O₂" in organic solvents.

HORECKY, J.; SEVCIK, L.; STUBNA, J.; MINARIKOVA, F.

Importance of hypothermia in ischemic anoxia of the myocardium.
Bratisl. lek. listy 43 Pt. 1 no. 7:385-393 '63.

1. Oddelenie kardiopulmonalnej chirurgie Vedeckeho laboratoria
pre vyskum chirurgickej patofyziologie Lek. fak. Univ. Komenskeho
v Bratislave, veduci doc. MUDr. M. Kratochvil.

(HYPOTHERMIA, INDUCED) (CORONARY DISEASE)
(POTASSIUM) (SODIUM) (OXIMETRY) (DOGS)

YUNOVICH, A.E.; YELISEYEV, P.G.; NAKHODNOVA, I.A.; ODMONT, A.B.; OSADCHAYA, L.A.
STUCHEBNIKOV, V.M.

Radiative recombination in p - n-junctions in GaAs produced
by beryllium diffusion. Fiz. tver. tela 6 no.6:1900-1902
Je '64. (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653620011-6

YUNOVICH, A.E.; YELISEYEV, P.G., ORLOV, A.B., OSADCHAYA, L.A.; STUCHERNIKOV,
V.M.

Structure of coherent radiation spectra from GaAs p-n junctions.
Fiz. tver. teda 6 no.6:1963-1970 Je '64. (MIFI 17:9)

I. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653620011-6"

L 58406-65 EWT(1)/EWT(m)/ENG(m)/T/EWP(t)/EWP(b)/EWA(h) Pz-6/Peb IJP(c) RDN/
ACCESSION NR: AP5017331 JD/JG/AT UR/0181/65/007/007/2231/2232

AUTHOR: Poltoratskiy, E. A.; Stuchebnikov, V. M.; Yunovich, A. E.

52
51
B

TITLE: Coherent radiation of a GaAs p-n junction obtained by diffusion of beryllium

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2231-2232

TOPIC TAGS: laser, semiconductor laser, junction laser, injection laser, injection diode, GaAs laser, beryllium doped laser

ABSTRACT: A beryllium-doped pulsed GaAs p-n junction laser which operates at 77K is described. GaAs doped with tellurium with an electron concentration of $1-3 \times 10^{18} \text{ cm}^{-3}$ served as the initial material. Beryllium was diffused from a spray-coated film at 930C during a 13-hour period. The depth of the p-n junction was 45 μ . (The properties of the junction and its depth varied with the properties of the film). The diodes were fabricated by the usual method. The Fabry-Perot and triangular cavities were prepared by cleaving. The duration of the pulses was 2.5 μsec and the repetition rate 50 cps. The area of the p-n junction of the triangular diode was $2.8 \times 10^{-3} \text{ cm}^2$. A narrow peak of coherent radiation was observed at the threshold. As the current was increased, additional peaks appeared in the spectrum. The threshold current density and the directionality of Be-doped lasers are similar to those of Zn-doped GaAs injection diodes. Orig. art. has: 2 figures.

Card 1/2

[CS]

L 58406-65	ACCESSION NR: AP5017331	ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. Lomonosova (<u>Moscow State University</u>)	
SUBMITTED: 15Feb65	ENCL: 00	SUB CODE: ECSS	
NO REF SOV: 001	OTHER: 001	ATD PRESS: 4042	
Card 212dpp			

L 64152-65 : EWA(k)/FBD/EWG(r)/EWT(1)/EWT(m)/EEC(k)-2/T/EWP(t)/ERC(b)-2/
ACCESSION NR: AP5020743 EWP(k)/EWP(b)/EWA(m)-2/EEA(h) SGTB/IJP(c) WG/JD
UP/0057/65/035/008/1516/1521

535.37

AUTHOR: Poltoratskiy, E. A.; Stuchebnikov, V. M., Yunovich, A. E.

53
51
P

TITLE: Coherent emission of radiation from GaAs luminescent diodes with triangular cavity

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 8, 1965, 1516-1521

TOPIC TAGS: laser; semiconductor laser, coherent radiation, GaAs, GaAs laser,
laser cavity, Junction laser

57-7

ABSTRACT: Coherent emission of radiation was obtained in GaAs diodes operating at liquid nitrogen temperature with the resonant structure in the form of equilateral triangular prisms. The p-n junction parallel to the base was formed in the (111) plane. The diodes were fabricated by cleaving along the (110) planes. The sides of the triangles were 0.4—0.7 mm long and the junction area was $1.2\text{--}2.2 \cdot 10^{-3} \text{ cm}^2$. The threshold current density and the power output of triangular diodes are of the same order of magnitude as those of the Fabry-Perot junction laser. However, emission of stimulated radiation takes place at lower currents (30 amp). Orig. art. has:
4 figures.

[CS]

Card 1/2

L 64152-65

ACCESSION NR: AP5020743

ASSOCIATION: Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul'tet
(Moscow State University, Physics Faculty) *u*

SUBMITTED: 20Jul64

ENCL: 00

SUB CODE: EC, SS

NO REF SOV: 006

OTHER: 009

ATTD PRESS: 4065

Card 2/2

STUBNYA., V.

"Damages caused by Acrobasis (Phycis) Consociella Hbn. (Lep. Pyral.) in
our oak forests." p. 149

ERDESZETTUDOMANYI KOZLEMENYEK. Erdomernoki Foiskola. Az Erdomernoki
Foiskola Kozlemenyei Sopron, Hungary, 1955

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

...".

systematic, first open spontaneous combustion in considering
the possibility of fire in the area of offices.

r. 211 (magyar nyelvben) Budapest
Vol. II, p. 1, Mar. 1977.

2. 1977. November 1. - Index of Hungarian Additions (...), Vol. II, No. 1 - November 1977.

ST. PETERSBURG, RUSSIA.

Extinguishing pit fires caused by spontaneous combustion in considering
classic hard coal mining in the area of lecs.

P. 325 (E. N. S. M. P. I. N. T. E.) Budapest Vol. 12, No. 6, June 1957.

20: Monthly Index of East European Acquisitions (M.I) Vol. 6, No. 11 November 1957.

STUCHINOV, A., general staff

Propaganda of regulations and their introduction into practice. Korm.
Vozrash. SII 6 no.21449-34 N 164. (MIRA 17-12)

1. Komanduyushchii vyskami Zakevianskogo voynennogo okruga.

STUCHAEVSKIY, M. P.

STUCHAEVSKIY, M.; KREPS, A.S., otvetstvennyy redaktor; SAL'MONT, I.P.,
redaktor; FRUMKIN, P.S., tekhnicheskiy redaktor

[Estimating costs in ship building] Planirovaniye sebestoimosti
v sudostroenii. (Leningrad) Gos. izd-vo sudostroitel'noi lit-ry,
1951. 90 p.
(Shipbuilding—Costs)

(MLRA 8:7)

ACCESSION NR: AP4039693

S/0181/64/006/006/1908/1910

AUTHOR: Yunovich, A. E.; Yeliseyev, P. G.; Ormont, A. B.;
Osadchaya, L. A.; Stuchebnikov, V. M.

TITLE: Structure of coherent radiation spectra from GaAs p-n
junctions

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1908-1910

TOPIC TAGS: GaAs laser, semiconductor laser, laser, junction laser,
injection laser, coherent emission, coherent emission spectrum

ABSTRACT: The structure of recombination radiation emitted by GaAs
p-n junction lasers operating at 77K was investigated. The diodes were
fabricated by diffusion of zinc into GaAs wafers. The carrier concen-
tration of GaAs was about $7 \cdot 10^{17} \text{ cm}^{-3}$. The carriers were injected
by applying current pulses of 8 to 100 amp. The duration of the
pulses and the repetition rate were 1.2 μsec and 50 cps, respectively.
For different diodes the threshold current density varied between
 $2.6 \cdot 10^3$ and $11 \cdot 10^3 \text{ amp/cm}^2$. One to three lines, about 2 Å or less
wide, appeared near the main emission peak at the threshold current.

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ACCESSION NR: AP4039693

As the current density was increased, the number of peaks (all of which appeared in a longwave part of the spectrum 7—35 Å wide) increased to 10—15, and the main peak was shifted into this spectral region. Some overlapping of neighboring lines was observed. The line width at half maximum varied from less than 1 Å to 2.5 Å. The separation between the majority of the adjacent peaks was 3.5 ± 0.7 Å. The intensity of the main peak was highest for diodes with the smallest number of maxima and the least shifting. In such diodes the series resistance determined from the current-voltage characteristics was slightly lower than in other diodes. Such lasers were also characterized by a sudden increase of current at a voltage of about 1.47, and by a thinner p-n transition region. The structure of the emission spectra was explained on the basis of an earlier paper (P. P. Sorokin, J. D. Axe, J. R. Lankard, J. Appl. Phys., 34, 2553, 1963), in which it was shown that spectral components of continuously emitting GaAs lasers correspond to different cavity modes. It was calculated that the diode temperature increased by 5—15K during the duration of the pulse. This was in agreement with the experimentally observed temperature variation. Orig. art. has 2 figures.

Card 2 / 3

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ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

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L 25469-66 EWT(m) JD/JG

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75

AUTHOR: Poltoratskiy, E. A.; Stuchebnikov, V. M.

74

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy uni-
versitet)

B

27 27 27

TITLE: Diffusion of beryllium in gallium arsenide

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 963-965

TOPIC TAGS: gallium arsenide, beryllium, physical diffusion, hole mobility, carrier
density

ABSTRACT: The diffusion was investigated in n-type gallium arsenide with 3×10^{17} –
 $4 \times 10^{18} \text{ cm}^{-3}$ electrons. The samples were oriented in the (111) plane and the beryllium was sputtered in vacuum better than 10^{-4} mm Hg on a polished or etched surface. The diffusion annealing took place in sealed quartz ampoules at 880–990°C. The distribution of the acceptor concentration after the diffusion was investigated by successive removal of layers. The data of C. H. Good (Phys. Lett. 14, 183, 1965) were assumed for the mobility of the holes as a function of the acceptor density. The results show that when the initial concentrations are $\leq 1.5 \times 10^{18} \text{ cm}^{-3}$ the penetration curves approximate the error function. At larger concentrations, especially after prolonged annealing, allowance must be made for the decomposition of the material. The results also show that the surface concentration of Be in GaAs is $(1-3) \times 10^{19} \text{ cm}^{-3}$. At low densities the diffusion coefficient is given by

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D = $D_0 \exp(-E_0/kT)$, where $D_0 = 7.3 \times 10^{-8} \text{ cm}^2/\text{sec}$, and $E_0 = 1.2 \text{ ev}$. The authors thank A. E. Yunovich for continuous interest in the work. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 22Sep65/ ORIG REF: 003/ OTH REF: 003

Card 2/2 UU

25(5); 25(3)

PHASE I BOOK EXPLOITATION

SOV/1989

Troitskiy, Petr Aleksandrovich and Stuchevskiy, Mark Pavlovich

Planirovaniye sebestoimosti na mashinostroitel'nom zavode; metodika i praktika (Planning of Costs in a Machine-Manufacturing Plant; Method and Practice) Moscow, Mashgiz, 1959. 249 p. Errata slip inserted. 5,000 copies printed.

Reviewers: Z.N. Neyman, Engineer and Ye. P. Frolov, Engineer: Ed.: M.N. Boginskiy Engineer, Economist; Ed. of Publishing House: A.I. Tkachun; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on the Economics and Organization of Production (Mashgiz) T.D. Saksaganskiy

PURPOSE: This manual is intended for planning personnel and economists of machinery-manufacturing plants. It may also be useful to workers in other plants and economic councils as well as teaching personnel in economic vuzes and tekhnikums.

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Planning of Costs in a Machine-Manufacturing (Cont.)

SOV/1989

COVERAGE: The manual outlines the procedure for setting up a plan based on the cost of production in a machinery-manufacturing plant. This outline includes numerical examples which demonstrate the methods employed in relating various indices used in cost planning and points out the relationship between the cost and other aspects of the technical, industrial, and financial plan. Examples are also given for calculating the effectiveness of organizational and technical measures and planned savings for separate items in cost accounting. A balance method of calculating the plant cost of production plan covering everything from auxiliary shop outlays to the cost of gross production is included. No personalities are mentioned. There are no references.

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Ch. I. Objectives of Production Cost Planning in a Plant	5
Ch. II. Cost in the System of Technical and Economic Indices of the Operation of an Industrial Establishment	10
Card 2/4	

STUCHEVSKIY, M.

Measuring the level of labor productivity in heavy machinery manufacturing according to the actual data. Biul. nauch. inform.: trud i zar. plata 4 no.11:11-18 '61. (MIR 14:12)
(Machinery industry--Labor productivity)

STUCHEVSKIY, N. I.

Stratigraphy of the northwestern Irtysh shear zone. Trudy
Alt.GMNII AN Kazakh.SSR 8:205-211 '60. (MIRA 13:7)
(Altai Mountains--Geology, Stratigraphic)

S/169/62/000/005/014/093
D228/D307

AUTHORS: Yeremin, V. K., Klenchin, N. N., Udris, K. P. and Stuchevskiy, N. I.

TITLE: Geologic surveying and geophysical operating procedure in conditions of enclosed regions

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 23, abstract 5A179 (V sb. Geol., metodika i tekhn. razvedki, labor. raboty, (5), Alma-Ata, 1961, 19-28)

TEXT: In conditions of enclosed regions geophysical research methods lead in the general complex of geologic operations and begin with regional investigations. Seismic, gravimetric, electric and magnetic prospecting, accompanied by drilling, are used in this stage. Complex areal investigations at a scale of 1:200,000 in sections, outlined by the regional survey, represent the next stage of depth mapping. The investigational complex includes: aeromagnetic and aeroelectric prospecting, gravimetric prospecting, electric prospecting by the ВЭЗ (VEZ) and ДЭЗ (DEZ) methods, geologic sur-

Card 1/2

Geologic surveying and ...

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veying, drilling operations, and geochemical investigations. Complex geologico-geophysical searches, including the obligatory execution of gravimetric and magnetic prospecting operations, are made in perspective areas, subject to mapping on a scale of 1:50,000. The choice of other geophysical and geochemical methods, and also the volume of drilling operations, is governed by the concrete geological conditions and by the problems of seeking useful minerals.
[Abstracter's note: Complete translation.]

Card 2/2

VOLKOV, V.M.; VOROB'YEV, Yu.Yu.; IVANKIN, P.F.; STUCHEVSKIY, N.I.

Experience and methods of large-scale prediction in the Berezovo-Belousovka ore deposit. Trudy Alt.GMNII AN Kazakh.SSR 12:37-48 '62. (MIRA 15:8)

(Altai Mountains--Ore deposits)

STOCUM, L.

STOCUM, L. Other oral, visual and dance masks from New Ireland in the collections
of the Ethnological Museum, Berlin.

74.1.2.1.167
Double平原面MAMBE
新爱尔兰
Beginning Iowanda

See: Scott Johnson Accession, Vol. 4, No. 5, reg 167

CZECHOSLOVAKIA / Chemical Technology. Chemical Products h
and Their Applications. Fermentation Industry.

Abs Jour: Ref Zhur-Khimika, 1959, No 4, 13419.

Author : Minarikeva, L.; Stuchik, V.

Inst : Not given.

Title : Use of the Fischer Method For Inspecting the
Production of Dry Baking Yeasts.

Orig Pub: Kvasny prumysl, 1958, 4, No 8, 187-188.

Abstract: It is shown that by observing required conditions,
the Fischer method can be used for inspecting
vitamin-rich dry yeast production. -- Authors'
resume.

Card 1/1

TENOROVA, M.; STUCHILIKOVA, E.; KORINEK, J.

Proteins of gastric juice; electrophoresis in agar and immunoelectrophoresis. Sborn. lek. 63 no. 7/8:211-216 [REDACTED].

1. Ustredni biochemicke laboratoare fakultni nemocnice v Praze 2,
prednosti dr. J. Hrabane Ustav hematologie a krevni transfuze, Praha,
reditel prof. dr J. Morejsi.
(GASTRIC JUICE chem.) (PROTEINS chem.)

STUCHINSKIY, Abram Moiseyevich, vrach; KAPUSTIN, Vasiliy Grigor'yevich,
inzh.; TUPIKOV, A.I., red.; PULIN, L.I., tekhn.red.

[Advice for miners on the prevention of injuries and diseases]
Sovety shakhteru o preduprezhdenii travm i zabolеваний. Tula,
Tul'skoe knizhnoe izd-vo, 1959. 69 p. (MIRA 13:10)
(MINERS--DISEASES AND HYGIENE)

STUCHINSKIY, B. G.

Mbr., Hosp. Surgical Clinic, 1st Leningrad Med. Inst. I. P. Pavlov, -c1949-. "Epithelial Cysts and Abnormalities of the Cervical Region," Vest. Khirurgii, 69, No. 1, 1949.

STUCHINSKIY, B.G.

Perirenal dermoid cyst. Urologiia no.4:54-55 O-D '55. (MIRA 9:12)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. F.G.Uglov) I
Leningradskogo meditsinskogo instituta imeni akad. I.P.Pavlova.
(TERATOMA,
perirenal)
(KIDNEYS, neoplasms,
teratoma, perirenal)